

# **VANDERCOOK MANUAL**

•

OPERATION    MAINTENANCE  
PARTS LIST



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# Vandercook Manual

*Operation — Maintenance*  
*Parts List*

MODEL NO. SP15

SERIAL NO. 22327

Always be sure to give both the above Model and  
Serial Numbers when ordering parts or requesting  
information about this machine.



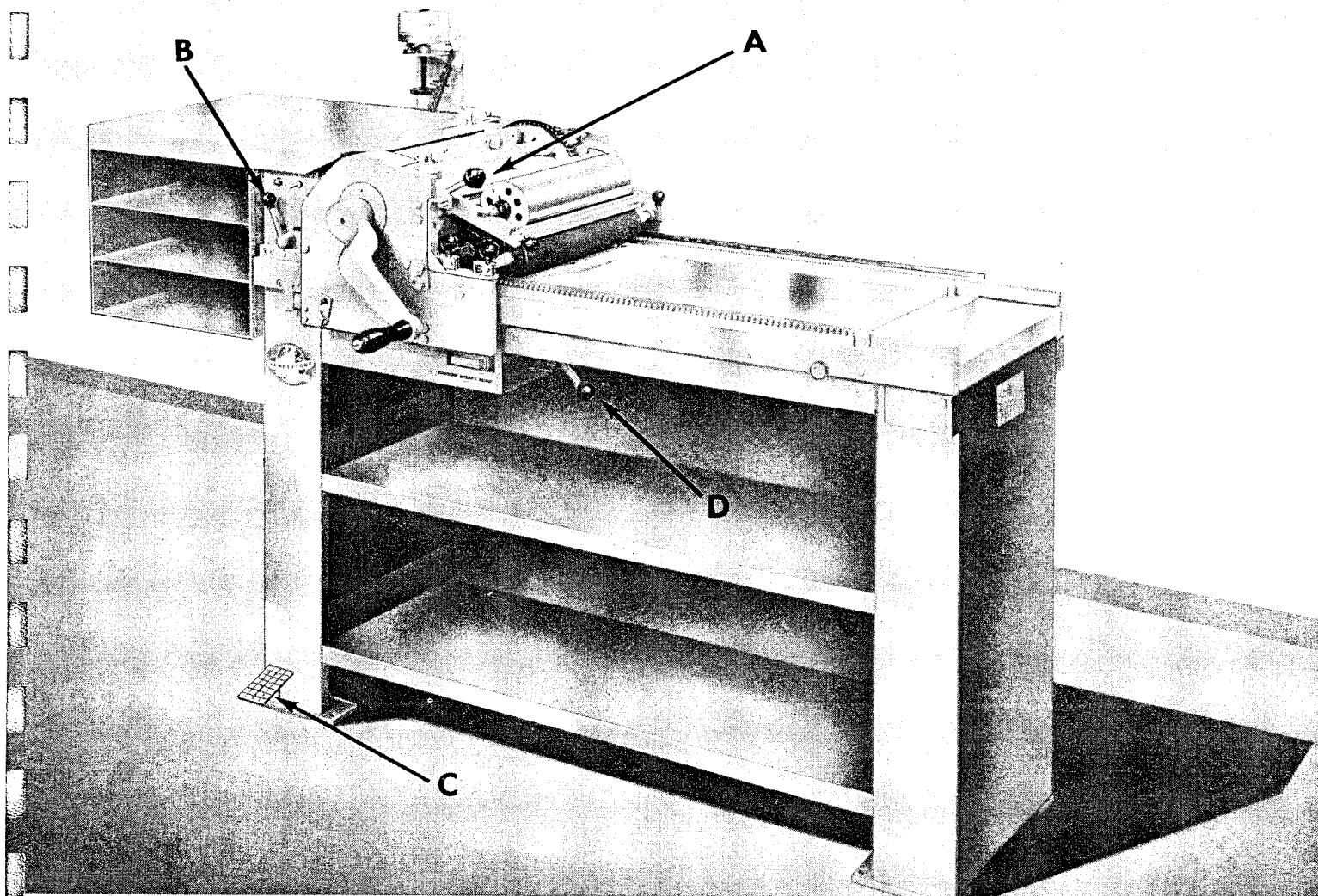
**VANDERCOOK**

**& SONS, INC.**

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## **Vandercook SP15 Proof Press Operating and Maintenance Instructions**

### **INSTALLATION**

Uncrate the press and remove all protective paper. Leave the press on its skids until it has been moved to its approximate location. Clean thoroughly, particularly all machined surfaces, using kerosene and rags.

Remove skids and set press on synthetic rubber pads furnished—one under each leg of press. Bolt the feed board to the top of the leg, using the four hollow head cap screws and wrench furnished. Place a precision level on the bed, and level the press by putting metal or cardboard shims under the rubber pads where necessary.

### **CONTROLS**

#### **INKING ROLLER TRIP LEVER (A)**

Lever "A" lifts form rollers and separates steel vibrator and rider from form rollers.

#### **CYLINDER TRIP (B)**

Cylinder is on trip when the lever "B" is in the position shown in the illustration. Moving the lever to its forward position will cause the cylinder to print on its travel away from the feed board. The cylinder is always automatically tripped on its travel back to the feed board.

#### **GRIPPERS (C)**

Press is equipped with automatic and foot operated (C) grippers. Grippers open automatically to release the sheet after printing.

#### **AUTOMATIC WASHUP LEVER (D)**

Moving lever "D" up brings washup doctor blade into contact with the motor driven ink drum. Doctor blade should be brought into contact with drum only when cylinder is at feed board.

## LUBRICATION

### All Oil Holes

At least once a week. Use S.A.E. #20 Oil.

### Vibrator Worm

Keep covered with a petroleum jelly product, such as vaseline.

### Vibrator Shaft

At least once a week. Use S.A.E. #20 Oil.

### Bed and Cylinder Bearers

Wipe bearers with *slightly* oiled rag daily.

### Cylinder Guide Plates

At least once a week, using S.A.E. #20 Oil.

### Under Rails

Under rails should be wiped clean and well oiled daily.

***For further instructions on lubrication,  
refer to repair parts sheets.***

## CYLINDER PACKING

The cylinder bearers are .040" higher than the body of the cylinder. The cylinder packing, plus the stock to be printed on, should be approximately .003" over the cylinder bearers.

To change packing, move cylinder to center of bed (on trip, if there is a form or plate on the bed) so that reel rod is in up position. Unlatch reel rod ratchet with wrench provided, and loosen drawsheet from reel rod. With left hand, grasp packing and, as cylinder is returned to feed board, lay packing on feed board.

To change the drawsheet, loosen the filister head screws in the gripper bar. Unless overlays are used, only the drawsheet is held by this bar.

When moving cylinder to center of bed to secure packing, hold packing in position by smoothing out with left hand. Secure drawsheet to reel rod. Be sure packing is tight to cylinder at both sides of gripper edge. There is sufficient side play in the reel rod to correct a small amount of unevenness in packing.

## ADJUSTING FORM ROLLERS

Form rollers are adjusted by turning the black knobs to the right to raise the rollers, and to the left to lower them. The adjusting knobs can be made to turn tighter or looser by means of the clamping screws on the side of the form roller bearing assembly. A wrench is supplied for adjusting these screws.

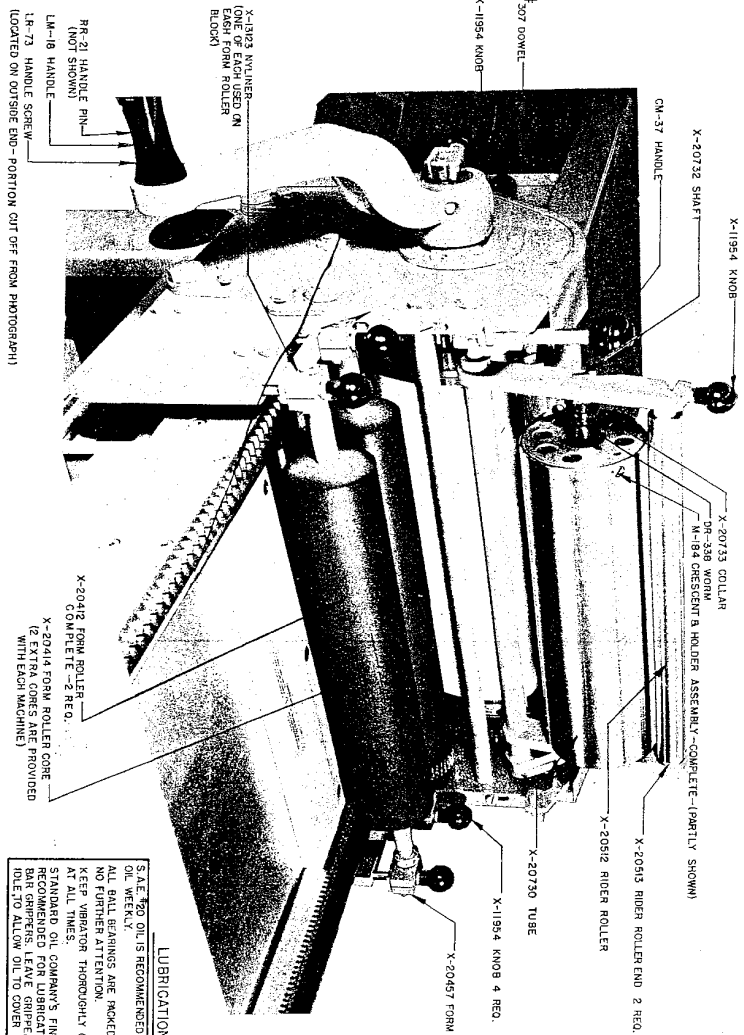
When using synthetic form rollers, they should be adjusted to leave a streak  $\frac{1}{16}$ " on the Vandercook NuWay Roller Setting Gauge furnished. For glue composition rollers, a  $\frac{1}{8}$ " wide streak is better to properly ink plate or form. There are no other adjustments to make in the inking system.

## CHANGING FORM ROLLERS

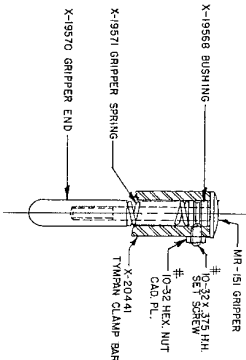
Form rollers can be changed in a few seconds by merely lifting out the assembly of rollers, ball bearings and adjusting mechanism.

For color proofs, it is an excellent idea to have at least one extra set of rollers equipped with bearings, adjusting mechanism and driving gear.

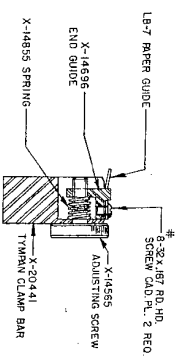




**SECTION SHOWING GRIPPER ASSEMBLY**  
4 REQ.



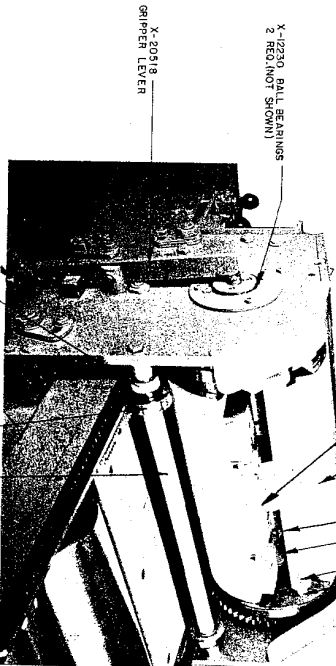
**SECTION SHOWING END GUIDE ASSEMBLY**  
2 REQ.



**LUBRICATION**

IT IS LEFT TO YOU TO OIL THE RECOMMENDED FOR ALL MOVING PARTS. ALL BALL BEARINGS ARE PACKED IN GREASE AND REQUIRE NO FURTHER ATTENTION. KEEP VIBRATOR THOROUGHLY COVERED WITH VASELINE AT ALL TIMES. STANDARD OIL COMPANY'S FINOIL OR EQUIVALENT IS RECOMMENDED FOR LUBRICATION OF TYMAN CLAMP BAR. IT IS SUGGESTED THAT THE GRIPPER OPEN WHEN PRESS IS IDLE TO ALLOW OIL TO COVER SPARKS THOROUGHLY.

MA-113 UNDER SHEET & X-20543 DRAW SHEET OF SEVEN SHEETS OF DRAW SHEET IN UPPER RH CORNER OF THIS SHEET





F-916 10-38 X .750  
R.H. FIL. HD.

X-21051 PULLEY

X-21050 INK DRUM  
DRIVE "V" BELT

3/12-18 X .312  
H.H. SET SCREW

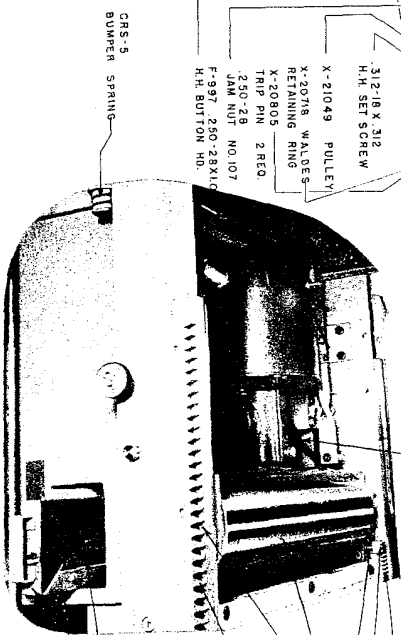
X-21049 PULLEY

X-20718 WALDES  
RETAINING RING

X-20805 2 REQ.  
TRIP PIN

2.50 IN.  
X-20809 NO. 107

F-927 250-28X10  
R.H. BUTTON HD.



CRS-5  
BUMPER SPRING

X-20633 WASH UP TRAY

X-20637 WASH UP TRAY

X-20463 CYLINDER RACK-L.H.

X-20462 CYLINDER RACK R.H.

X-20613 INK DRUM ASSEMBLY  
2 REQ. (NOT SHOWN)

X-19665 INK DRUM BEARING  
2 REQ. (NOT SHOWN)

X-20466 FORM ROLLER RACK  
BS-429 STARTING TEETH  
BRS-1 SPRING

X-20468 FORM ROLLER RACK  
BS-429 STARTING TEETH  
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BS-429 STARTING TEETH  
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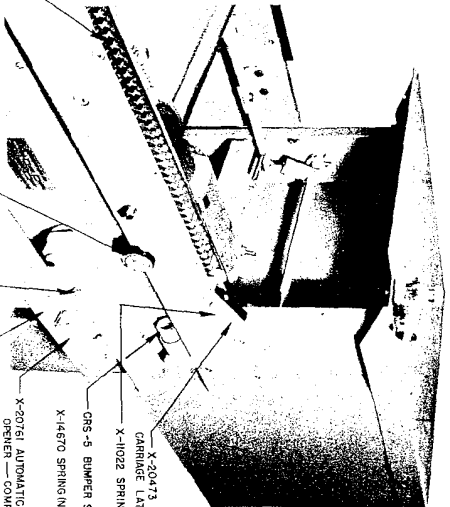
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X-20468 FORM ROLLER RACK  
BS-429 STARTING TEETH  
BRS-1 SPRING

**LUBRICATION**  
S.A.E. 320 OIL IS RECOMMENDED FOR ALL MOVING PARTS. OIL WEEKLY. ALL BALL BEARINGS ARE PACKED IN GREASE AND REQUIRE NO FURTHER ATTENTION. FOLLOW MOTOR MFGS. INSTRUCTIONS FOR LUBRICATION OF MOTOR. A LIGHT FILM OF OIL SHOULD BE KEPT ON CHAMS AND IMPRESSION RAILS AT ALL TIMES.



CRS-5 BUMPER SPRING

X-14670 SPRING (NOT SHOWN)

X-20473 CARRIAGE LATCH

X-1022 SPRING

X-20701 AUTOMATIC GRIPPER  
OPERATOR—COMPLETE

X-14657 STOP

BRS-7 SPRING

X-20645 BUSHING  
WITH  
X-20644 ROLLER  
4 OF EACH REQ.

X-20463 CYLINDER RACK-L.H.

X-20462 CYLINDER RACK R.H.

X-20613 INK DRUM ASSEMBLY  
2 REQ. (NOT SHOWN)

X-19665 INK DRUM BEARING  
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X-20468 FORM ROLLER RACK  
BS-429 STARTING TEETH  
BRS-1 SPRING



X-20555 SIDE GUIDE  
SEE LAYOUT IN R.H. LOWER  
CORNER OF THIS SHEET.

X-20473 CARRIAGE LATCH

X-20556 1/8 HP GEAR MOTOR

X-20510 R.H. TRIP ARM

X-20510 R.H. TRIP ARM

X-20510 R.H. TRIP ARM

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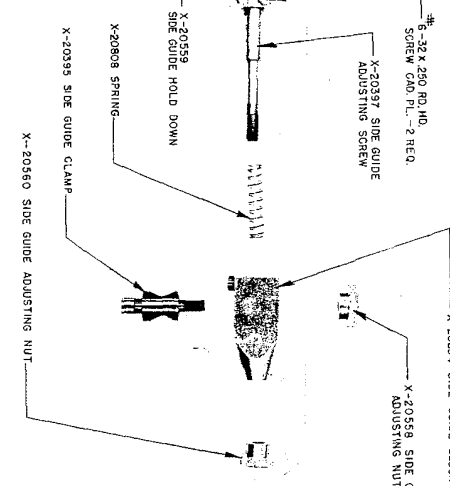
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X-20510 R.H. TRIP ARM



X-20394 SIDE GUIDE BLOCK

X-20558 SIDE GUIDE  
ADJUSTING NUT

X-20397 SIDE GUIDE  
ADJUSTING SCREW

X-20559 SIDE GUIDE HOLD DOWN

X-20808 SPRING

X-20395 SIDE GUIDE CLAMP

X-20395 SIDE GUIDE CLAMP

X-20395 SIDE GUIDE CLAMP

X-20395 SIDE GUIDE CLAMP

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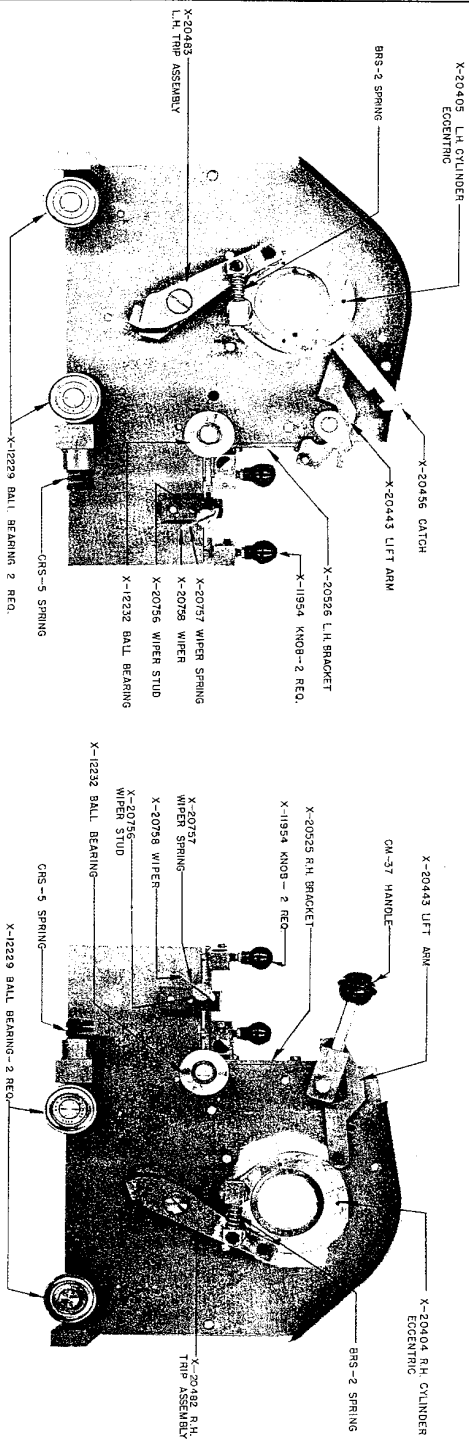
X-20395 SIDE GUIDE CLAMP

X-20395 SIDE GUIDE CLAMP

X-20395 SIDE GUIDE CLAMP

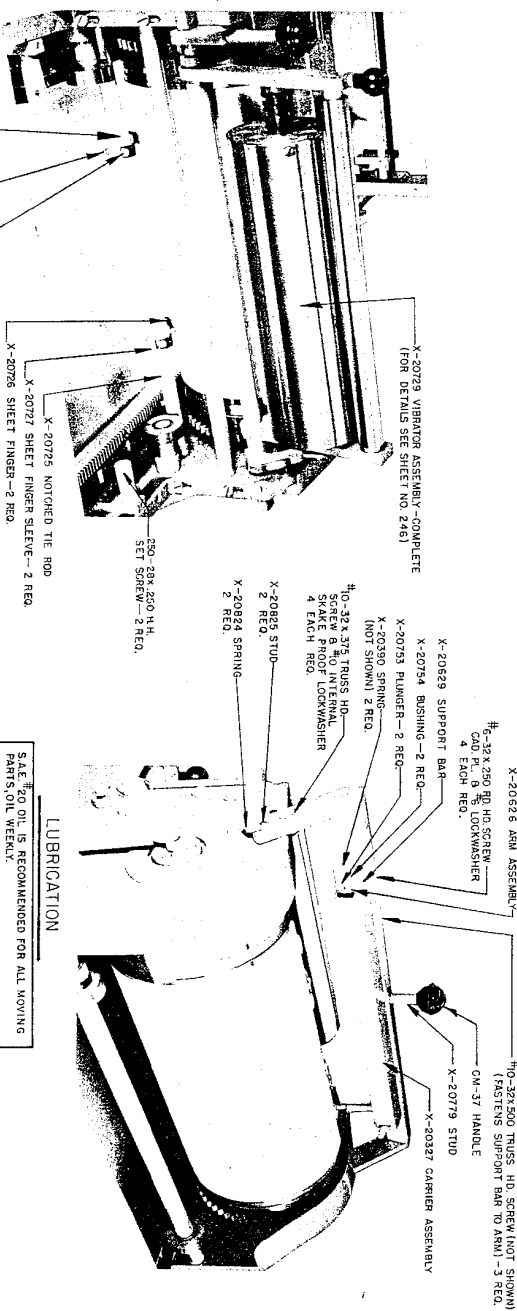
X-20395 SIDE GUIDE CLAMP

X-20555 SIDE GUIDE ASSEMBLY—COMPLETE



INSIDE VIEW OF CARRIAGE SIDE PLATE — LEFT SIDE

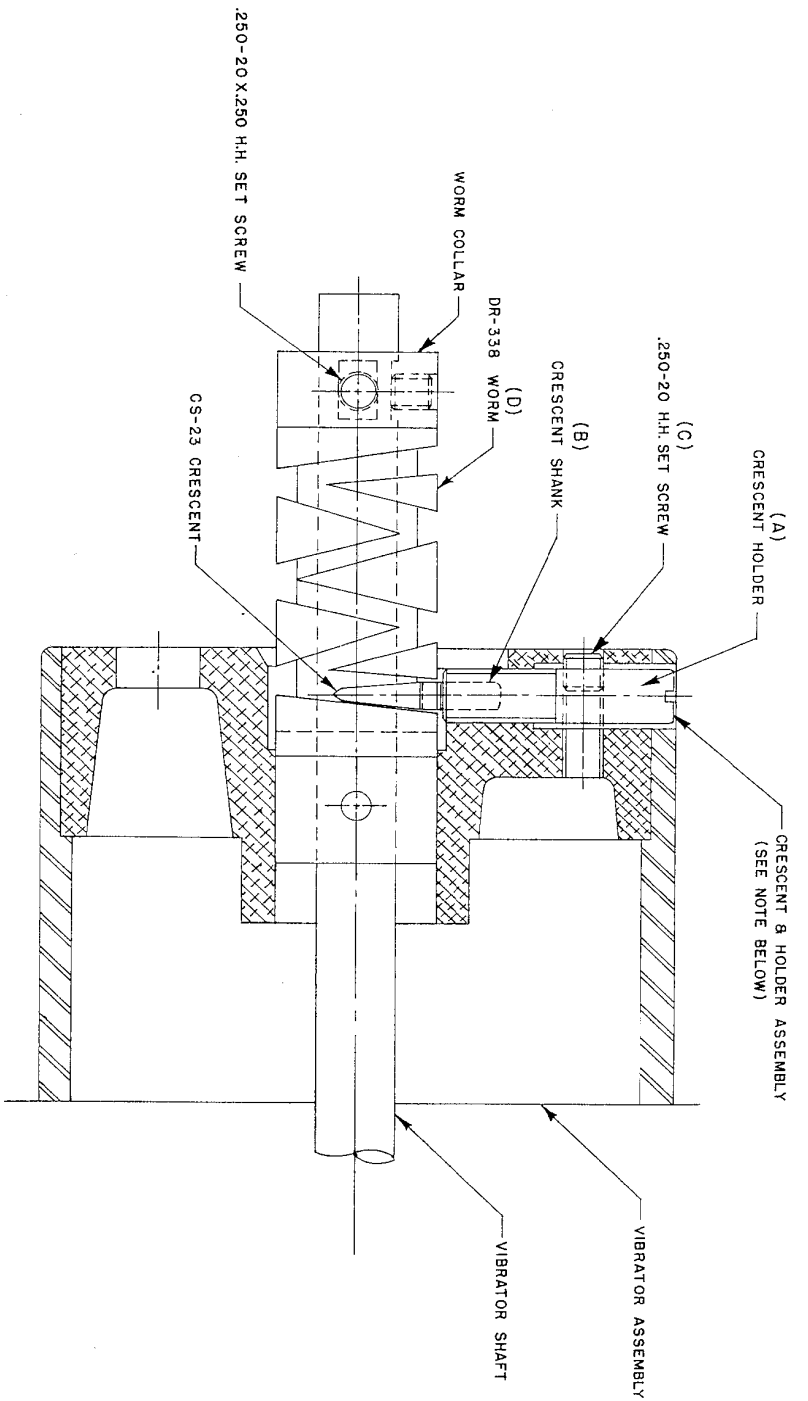
INSIDE VIEW OF CARRIAGE SIDE PLATE — RIGHT SIDE



# LUBRICATION

S.L.E. #20 OIL IS RECOMMENDED FOR ALL MOVING PARTS, OIL WEEKLY. ALL BALL BEARINGS ARE PACKED IN GREASE AND REQUIRE NO FURTHER ATTENTION. A LIGHT OIL SHOULD BE KEPT ON CHAINS AND IMPRESSION RAILS AT ALL TIMES.





PARTIAL SECTION VIEW OF INK DRUM VIBRATOR ASSEMBLY

- ① ADJUST CRESCENT HOLDER-(A) UNTIL IT TOUCHES END OF CRESCENT SHANK-(B). THEN BACK OFF 3/4 OF A TURN AND LOCK HOLDER WITH .250-20 H.H. SET SCREW-(C). THIS SETTING MUST ALLOW WORM-(D) TO ROTATE FREE OF ANY DRAG, TRAVELING FULL LENGTH BOTH DIRECTIONS.

- ② COAT VIBRATOR WORM WITH GRAPHITE GREASE OR VASELINE.

NOTE— CRESCENT AND HOLDER ASSEMBLY AS SHOWN IS PART NO. M-184. THE ABOVE INSTRUCTIONS APPLY ALSO TO X-2031 CRESCENT AND HOLDER ASSEMBLY (NOT SHOWN).

## CRESCENT OR WORM REPLACEMENT INSTRUCTIONS